Experiential Learning Portfolio for 10150170 Coding with Python

Student Contact Information:

Name: _____Student ID#: _____

Email: _____ Phone: _____

Directions

Consider your prior work, military, volunteer, education, training and/or other life experiences as they relate to each competency and its learning objectives. Courses with competencies that include speeches, oral presentations, or skill demonstrations may require scheduling face-to-face sessions. You can complete all of your work within this document using the same font, following the template format.

1. Complete the Student Contact Information at the top of this page.
2. Write an Introduction to the portfolio. Briefly introduce yourself to the reviewer summarizing your experiences related to this course and your future goals.
3. Complete each "Describe your learning and experience with this competency" section in the space below each competency and its criteria and learning objectives. Focus on the following:
    - What did you learn?
    - How did you learn through your experience?
    - How has that learning impacted your work and/or life?
4. Compile all required and any suggested artifacts (documents and other products that demonstrate learning).
    - Label artifacts as noted in the competency
    - Scan paper artifacts
    - Provide links to video artifacts
    - Attach all artifacts to the end of the portfolio
5. Write a conclusion for your portfolio. Briefly summarize how you have met the competencies.
6. Proofread. Overall appearance, organization, spelling, and grammar will be considered in the review of the portfolio.
7. Complete the Learning Source Table. Provide additional information on the business and industry, military, and/or volunteer experiences, training, and/or education or other prior learning you mentioned in your narrative for each competency on the Learning Source Table at the end of the portfolio. Complete this table as completely and accurately as possible.

The portfolio review process will begin when your completed portfolio and Credit for Prior Learning Form are submitted and nonrefundable processing fees are paid to your local Credit for Prior Learning contact. Contact Student Services for additional information.

Your portfolio will usually be evaluated within two weeks during the academic year; summer months may be an exception. You will receive an e-mail notification regarding the outcome of

the portfolio review from the Credit for Prior Learning contact. NOTE: Submission of a portfolio does not guarantee that credit will be awarded.

You have 6 weeks to appeal any academic decision. See your student handbook for the complete process to appeal.

To receive credit for this course, you must receive "Met" on 6 of the 7 competencies.

10150170 Coding with Python, 2 Associate Degree Credits

Course Description: This course provides students with a solid foundation in Python scripting. Students will use Python to automate routine tasks and explore the fundamentals of basic program logic. Topics covered include setting up the Python development environment and executing scripts; using variables and operators; implementing decision-making and repetition logic (such as if statements and loops); working with data structures like lists, tuples, and dictionaries; creating functions and modular code; and handling file operations.

Introduction: **Briefly introduce yourself to the reviewer summarizing your experiences related to this course and your future goals.**

Competency 1: Solve math problems using data retrieved from various inputs.
Criteria: Performance will be satisfactory when:

- All PYTHON scripts must be created from original lines of code. No use of COPY/PASTE.
- All files used to retrieve or append data must be submitted with the PYTHON script.

Required Artifacts: None
Suggested Artifacts: Python script

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 2: Discuss the benefits of network automation services.
Criteria: Performance will be satisfactory when:

- A presentation may be performed face-to-face during class or recorded to Blackboard as a video.
- The presentation may use any slide presentation application compatible with Blackboard.
- The presentation must be at least five slides of content plus title and citations slides.

Required Artifacts: None
Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 3: Create programs using variable types, decisions, loops, and functions.
Criteria: Performance will be satisfactory when:

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Required Artifacts: None
Suggested Artifacts: Python Script

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 4: Assemble the appropriate software applications needed to work with Python on workstations.
Criteria: Performance will be satisfactory when:

- Installation of software applications may be on their personal device or a classroom virtual machine.

Required Artifacts: None
Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 5: Manage various IoT devices such as sensors, lights, motors, and relays with Python scripts.
Criteria: Performance will be satisfactory when:

- All Raspberry pi activities must be completed in the classroom lab.

Required Artifacts: None
Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 6: Analyze network data using results from API queries.
Criteria: Performance will be satisfactory when:

- Use the online Cisco DEV-NET sandbox to complete these activities.

Required Artifacts: None
Suggested Artifacts: Python Script

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 7: Explain the fundamental concepts of a programming language.

Criteria: Performance will be satisfactory when:

- The paper must be submitted in APA format, consist of at least four pages of content and cite at least four sources.

Required Artifacts: None
Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Conclusion: **Summarize how you have met the competencies of the course.**

Learning Source Table

Learning Source (name of employer, training, military, volunteer organization, etc.)	**Supervisor**	**Start-End Date**	**Total Hours**	**Related Competencies**
Ex: XYZ Corporation	Bucky Badger	8/2012-9/2014	2000	#1, 2, 3, and 7